

Date: Mon, 13 Dec 93 04:30:55 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V93 #131  
To: Ham-Homebrew

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Today's Topics:

Nation-specific radios (?) and Powering small speakers

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 12 Dec 1993 14:57:05 GMT  
From: news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@ames.arpa  
Subject: Nation-specific radios (?) and Powering small speakers  
To: ham-homebrew@ucsd.edu

In article <CHwIxz.8Mx@Dunx1.0CS.Drexel.Edu> st92ba44@dunx1.ocs.drexel.edu  
( antonio gatta) writes:

>hello all.

> I was just wondering if someone out there might have the answer(s) to  
>the following:

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>1) my grandfather bought a radio last year that was marketed to bring in  
> a foreign channel (italian news/entertainment) 24 hours a day. He listens  
> to it all the time so I assume that its working the way it should. Here's  
> my problem, how does the radio (with only a 2 foot antenna) pick up the  
> signals from italy 24 hours a day? What kind of radio is it?

It picks up a subcarrier from a local FM broadcast station, which probably  
receives the programming off a satellite feed. Out of curiosity, where is  
this available? If it's sold in Pittsburgh, I think my parents might be  
interested in something like it.

>2) also, (i have successfully finished my first radio!) and I was wondering  
> if I couldn't get it to drive a small speaker. Its meant to power a  
> set of low impedance phones. the book I have has the schematic for  
> a simple amp but it recommends against using it with the radio I have  
> built (crystal shortwave). Is there a way to boost the output so as  
> to drive, say, a 2" speaker? Thanks.

Okay, what you need is a high impedance input amplifier, with about 40 dB  
of gain. This will give you a "line level" signal that you can feed into  
a small power amplifier.

If you can find a design for a microphone preamplifier, that would be a good  
start. Otherwise, you can use a single op-amp (and I recommend a FET input  
op-amp like the MC34081) to get you some gain. If you haven't played with  
op-amps before, I strongly recommend Walt Jung's cookbook volumes, but  
even the manufacturer's datasheet should have a good enough example.

--scott

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>antonio gatta

>st92ba44@dunx1.ocs.drexel.edu

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"C'est un Nagra. C'est suisse, et tres, tres precis."

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End of Ham-Homebrew Digest V93 #131

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